

Autor	Title	Journal
RISystem		
Histing T, Garcia P, Holstein JH, Klein M, Matthys R, Nuetzi R, Steck R, Laschke MW, Wehner T, Bindl R, Recknagel S, Stuermer EK, Vollmar B, Wildemann B, Lienau J, Willie B, Peters A, Ignatius A, Pohlemann T, Claes L, Menger MD.	Small animal bone healing models: standards, tips, and pitfalls results of a consensus meeting.	Bone. 2011 Oct;49(4):591-9. Epub 2011 Jul 19.
MouseFix		
Gröngröft et al., 2009	Fixation compliance in a mouse osteotomy model induces two different processes of bone healing but does not lead to delayed union.	J Biomech. 2009; 42(13):2089-96
Matthys and Perren 2009	Internal fixator for use in the mouse.	Injury. 2009;40 Suppl 4:103-9
Egermann M, Heil P, Tami A, Ito K, Janicki P, Von Rechenberg B, Hofstetter W, Richards PJ.	Influence of defective bone marrow osteogenesis on fracture repair in an experimental model of senile osteoporosis.	J Orthop Res. 2010 Jun;28(6):798-804.
Ueno M, Uchida K, Takaso M, Minehara H, Suto K, Takahira N, Steck R, Schuetz MA, Itoman M.	Distribution of bone marrow-derived cells in the fracture callus during plate fixation in a green fluorescent protein-chimeric mouse model.	Exp Anim. 2011;60(5):455-62.
Steck R, Ueno M, Gregory L, Rijken N, Wullschleger ME, Itoman M, Schuetz MA.	Influence of internal fixator flexibility on murine fracture healing as characterized by mechanical testing and microCT imaging.	J Orthop Res. 2011 Aug;29(8):1245-50. doi: 10.1002/jor.21341. Epub 2011 Mar 15.
Ueno M, Urabe K, Naruse K, Uchida K, Minehara H, Yamamoto T, Steck R, Gregory L, Wullschleger ME, Schuetz MA, Itoman M.	Influence of internal fixator stiffness on murine fracture healing: two types of fracture healing lead to two distinct cellular events and FGF-2 expressions.	Exp Anim. 2011;60(1):79-87.PMID: 21325755 [PubMed - indexed for MEDLINE]
Mathieu Manassero, Véronique Viateau, Romano Matthys, Mickael Deschepper, Rosario Vallefucio, Morad Bensidhoum, Hervé Petite	A novel murine femoral segmental critical size defect model stabilized by plate osteosynthesis for bone tissue engineering purposes.	Tissue engineering. Part C, Methods. 09/2012; · 4.64 Impact Factor
Methaphyseal MouseFix		

Autor	Title	Journal
Histing T, Klein M, Stieger A, Stenger D, Steck R, Matthys R, Holstein JH, Garcia P, Pohlemann T, Menger MD.	A new model to analyze metaphyseal bone healing in mice.	J Surg Res. 2012 Apr 27. [Epub ahead of print] PMID: 22560849 [PubMed - as supplied by publisher]
MouseScrew		
Holstein JH, Matthys R, Histing T, Becker SC, Fiedler M, Garcia P, Meier C, Pohlemann T, Menger MD.	Development of a stable closed femoral fracture model in mice.	J Surg Res. 2009 May 1;153(1):71-5. Epub 2008 Mar PMID: 18656902 [PubMed - indexed for MEDLINE]
Holstein et al.	Advances in the establishment of defined mouse models for the study of fracture healing and bone regeneration.	J Orthop Trauma. 2009;23:S31-8
Holstein et al.	Ex vivo analysis of rotational stiffness of different osteosynthesis techniques in mouse femur fracture.	J Orthop Res. 2009;27:1152-6
MouseNail		
Garcia P, Herwerth S, Matthys R, Holstein JH, Histing T, Menger MD, Pohlemann T.	The LockingMouseNail--a new implant for standardized stable osteosynthesis in mice.	J Surg Res. 2011 Aug;169(2):220-6. Epub 2009 Dec 10. PMID: 20371084 [PubMed - indexed for MEDLINE]
MouseExFix		
Röntgen V, Blakytyn R, Matthys R, Landauer M, Wehner T, Göckelmann M, Jermendy P, Amling M, Schinke T, Claes L, Ignatius A.	Fracture healing in mice under controlled rigid and flexible conditions using an adjustable external fixator.	J Orthop Res. 2010 Nov;28(11):1456-62. PMID: 20872581 [PubMed - indexed for MEDLINE]
Histing et al.	Exvivoanalysis of rotational stiffness of different osteosynthesis techniques in mouse femur fracture.	J Orthop Res. 2009 27(9):1152-1156.
Zwingenberger S.	Establishment of a femoral critical size bone defect model in immunodeficient mice	JSURGRES-D-12-00612 Journal of Surgical Research
RatFix		

Autor	Title	Journal
Sebald HJ, Klenke FM, Siegrist M, Albers CE, Sebald W, Hofstetter W.	Inhibition of endogenous antagonists with an engineered BMP-2 variant increases BMP-2 efficacy in rat femoral defect healing.	Acta Biomater. 2012 Jun 29. [Epub ahead of print]
RatExFix		
V Glatt, CH Evans, R Matthys	Design, characterisation and in vivo testing of a new, adjustable stiffness, external fixator for the rat femur	volume 22 - European Cells and Materials Journal, Pages 289-299 :